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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/736,020 12/15/2003		Guo Liu	SMBZ 2 01016 6865-312 4169	
7590 04/03/2007 James W. McKee			EXAMINER	
Fay, Sharpe, Fa	agan	THOMPSON, CAMIE S		
Minnich & McKee, LLP, 7th Floor 1100 Superior Avenue Cleveland, OH 44114-2518			ART UNIT	PAPER NUMBER
			1774	
CHORTENED STATISTOR	AN BEDIOD OF BESDONSE	MAIL DATE	DELIVER	Y MODE
SHORTENED STATUTORY PERIOD OF RESPONSE		WALE DATE :	DEELVERT MODE	
3 MO	NTHS	04/03/2007	PAPER	

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
Office Action Summany	10/736,020	LIU, GUO				
Office Action Summary	Examiner	Art Unit				
	Camie S. Thompson	1774				
The MAILING DATE of this communication app Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on Amer	ndment filed January 16, 2007.					
	action is non-final.					
3) Since this application is in condition for allowar		secution as to the merits is				
closed in accordance with the practice under E	·					
Disposition of Claims						
4) Claim(s) 1-13 and 17-32 is/are pending in the	• •					
<ul><li>4a) Of the above claim(s) is/are withdraw</li><li>5) ☐ Claim(s) 1-13 and 20-31 is/are allowed.</li></ul>	vn from consideration.					
6)⊠ Claim(s) <u>17-19 and 32</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement					
are subject to resultation and a	Goodon requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) $\square$ objected to by the E	xaminer.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	, , , , ,	. ,				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal Pa					
Paper No(s)/Mail Date	6) Other:					

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## **DETAILED ACTION**

1. Applicant's amendment and accompanying remarks filed January 16, 2007 are acknowledged.

- 2. Examiner acknowledges amended claims 1 and 2.
- 3. The rejection of claims 19 and 32 under 35 U.S.C. 102(e) as being anticipated by Steckl et al., U.S. Pre Grant Publication 2002/0125821 is overcome by applicant's amendment.
- 4. The rejection of claims 6-7 and 17-18 under 35 U.S.C. 103(a) as being unpatentable over Steckl et al., U.S. Pre Grant Publication 2002/0125821 is overcome by applicant's amendment.
- 5. The rejection of claims 1-5, 8-13 and 25-31 under 103(a) as being unpatentable over Steckl et al., U.S. Pre Grant Publication 2002/0125821 in view of Valdna et al., U.S. Patent Number 6,254,806 is overcome by applicant's amendment.

## Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 7. Claims 17-19 and 32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 17-19 are rendered indefinite because it is unclear as to what is the activating element. Claims 17-19 and 32 are dependent upon claim 1, which recites A as Mg, Ca, Sr or Ba. It is unclear if the activating element is a rare earth element or Mg, Ca, Sr or Ba.

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8. Claims 1-13 and 20-31 are allowed. The prior art does not provide for the recited improved phosphor for a thick film dielectric electroluminescent display, wherein the phosphor film is selected from the group consisting of

(a) a rare earth activated alkaline earth phosphor having the formula  $AB_xC_y$ :RE wherein:

A is selected from one or more of the group consisting of Mg, Ca, Sr, and Ba;

B is selected from one or more of the group consisting of Al, Ga and In;

C is selected from one or more of the group consisting of S and Se; and

RE is a rare earth activator species;

(b) a rare earth or transition metal activated zinc selenide; and

(c) a rare earth or transition metal activated zinc sulfo-selenide,

wherein the phosphor film of (a), (b) and (c) is provided with an aluminum nitride barrier layer on a top and/or bottom side of the phosphor film.

## Response to Arguments

- 9. Applicant's arguments with respect to claims 1-13 and 17-32 have been considered but are most in view of the new ground(s) of rejection.
- 10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena L Dye, can be reached at (571) 272-3186. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SUPERVISORY PATENT EXAMINER